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A GREEN APPROACH FOR THE SYNTHESIS OF PYRIDINE LINKED BIS-(OXADIAZOLES) / (THIADIAZOLES) / (TRIAZOLES) AND EVALUATION AS ANTIOXIDANTS

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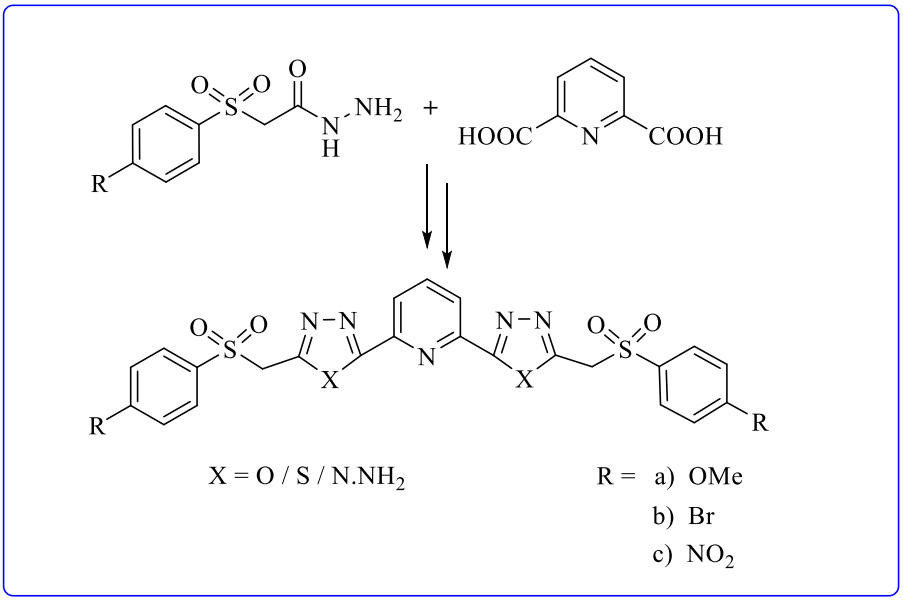

Abstract. The sulfone moiety is an important core unit in organic synthesis and medicinal chemistry. Amongst different heteroaromatic compounds oxadiazoles, thiadiazoles and triazoles form the basis of many pharmaceuticals and agrochemicals. In fact, pyridine exhibits diversified biological activities. The presence of different pharmacophores in the same unit is an attracting approach to develop new drugs due to synergetic effect. Besides, application of green chemistry concepts is an important goal to prepare biologically active compounds. In view of the above, the present study deals with the synthesis of pyridine linked bis(oxadiazoles), bis(thiadiazoles) and bis(triazoles) under ultrasonication and evaluation of radical scavenging activity. The results related to these aspects will be discussed.